



Installing MacBook Core Duo Heat Sink

Tools used in this guide

- [Coin](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)

Parts relevant to this guide

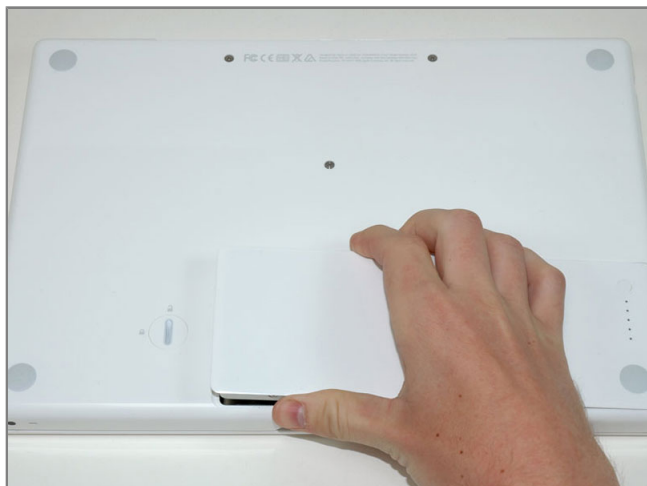
- [MacBook Heat Sink \(Four-wall Connectors\)](#) (1)
- [MacBook Heat Sink \(Three-wall Connectors\)](#) (1)

The heat sink helps keep the processor cool and happy.



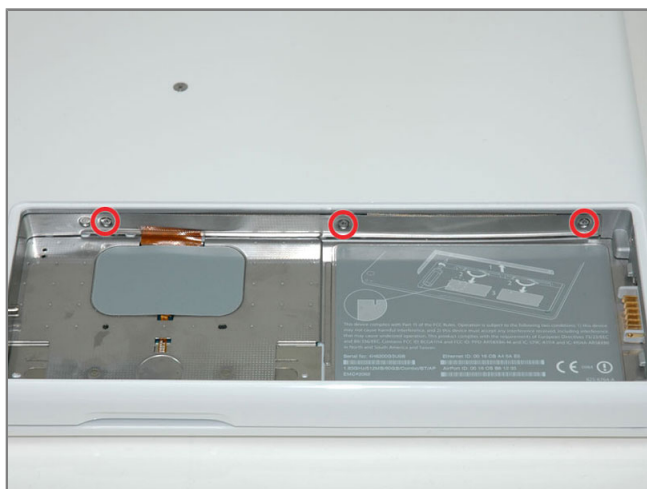
Step 1 - Battery

- Use a coin to rotate the battery-locking screw 90 degrees clockwise.



Step 2

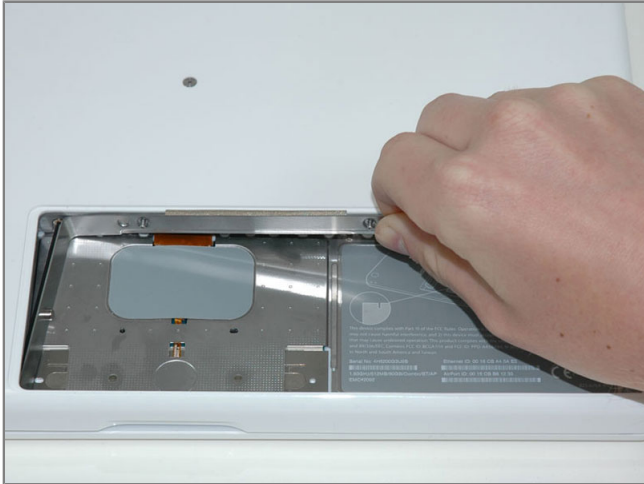
- Lift the battery out of the computer.



Step 3 - Memory Cover

- Remove the three evenly-spaced Phillips screws from along the rear wall of the battery compartment.
- The screws are captive to the metal memory cover.





Step 4

- Lift up on L-shaped memory cover, slide it to the right, and lift it out of the computer.



Step 5 - Upper Case

- Remove the following 3 screws:
 - One 11 mm Phillips #00 in the middle of the case.
 - Two 14.5 mm Phillips #00.
- If the screws stick in the case, you can use a magnetized screwdriver to draw them out.
- The shorter of the three screws goes in the middle.



Step 6

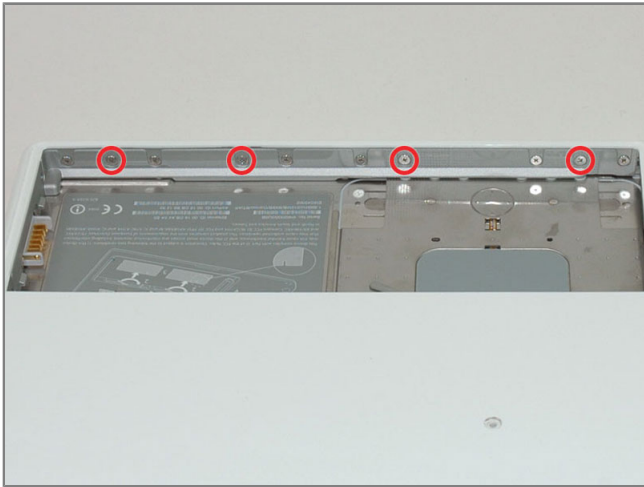
- Remove the following 3 screws from the rear wall of the battery compartment:
 - Two 3 mm Phillips #000.
 - One 4 mm Phillips #000 on the right side.
- When reinstalling these screws, it may be helpful to push down on the lower case to line up the screw holes.





Step 7

- Remove the two Phillips #00 screws from either side of the right wall of the battery compartment (not the ones closest to the battery connector).



Step 8

- Remove the four indicated Phillips #00 screws from the front wall of the battery compartment. When working from the left, remove the 2nd, 4th, 7th and 9th screw.



Step 9

- Remove the following 4 screws from the back of the computer:
 - Two 7 mm Philips on the far sides.
 - Two 10.5 mm Phillips toward the center.



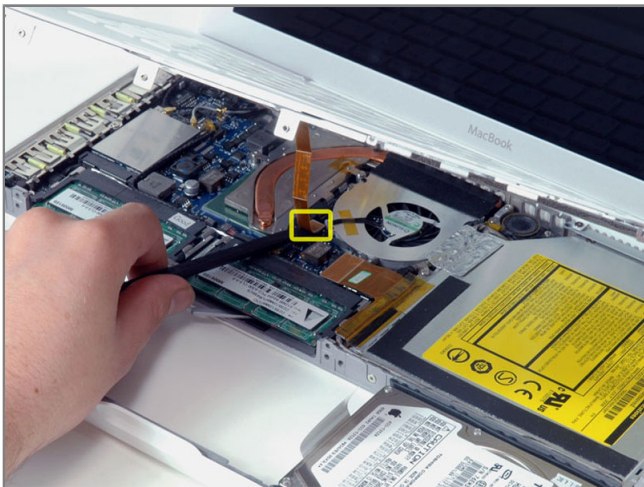
Step 10

- Remove the two Phillips #00 screws from the optical side of the computer.
- It is not necessary to remove the similar screws on the other side of the computer.



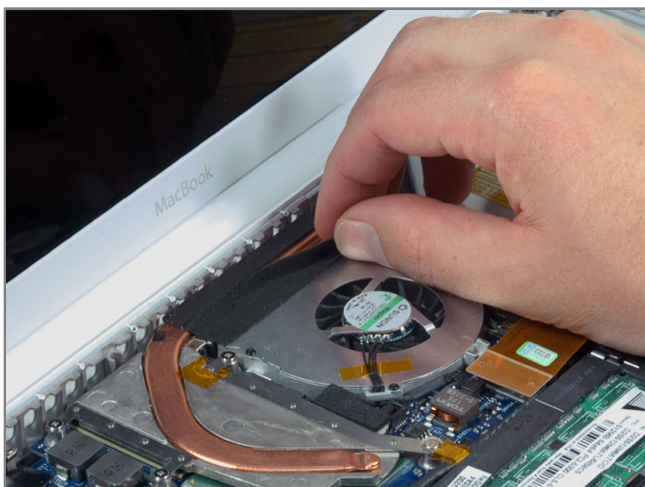
Step 11

- Starting near the display and working around to the front of the computer, pry up on the upper case. It is held with clips on the right above the optical drive. These will release with some firm lifting pressure.
- There's a trackpad and keyboard ribbon connecting the upper case to the logic board, so don't pull the upper case off entirely just yet.



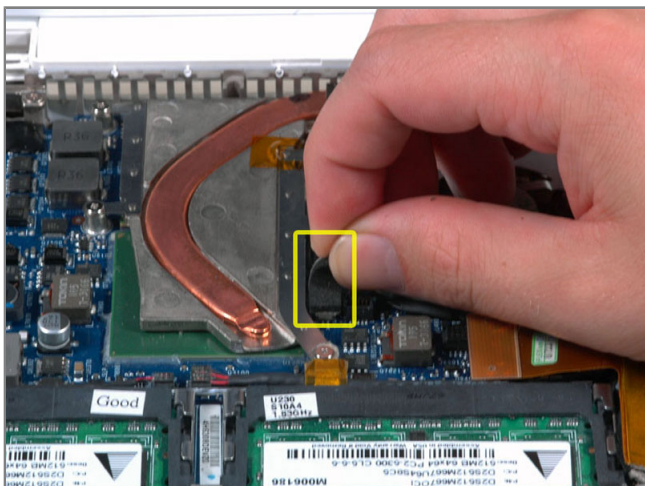
Step 12

- While holding up the upper case, use a spudger to pry up the orange trackpad and keyboard cable from its connector.



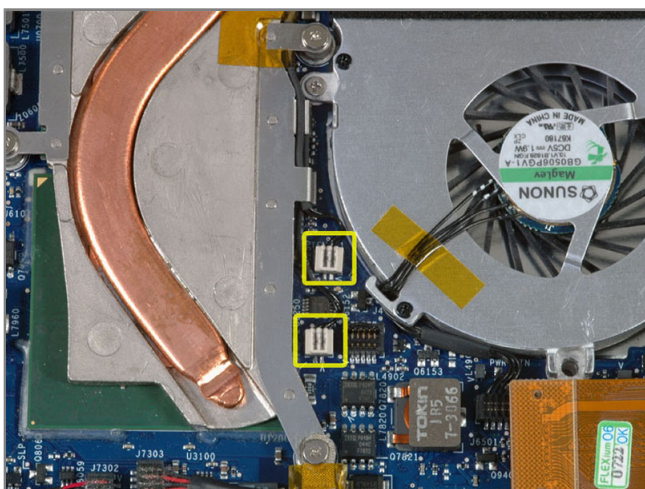
Step 13 - Heat Sink

- Carefully peel up the black felt tape between the heat sink and fan.



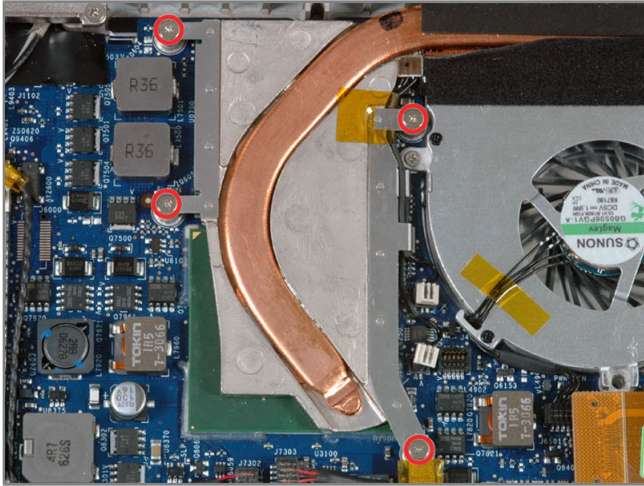
Step 14

- Peel up the small black rubber cover from the right side of the heat sink.



Step 15

- Disconnect the two newly-revealed temperature sensor connectors from the logic board.



Step 16

- Remove the four Phillips screws securing the heat sink to the lower case.
- Be sure to secure ground loop for the speaker cable beneath the screw in the lower right corner.



Step 17

- Lift the heat sink out of the computer, making sure that the black tape doesn't catch on the heat sink.
- If you need to mount the heat sink back into the laptop, we have a [thermal paste guide](#) that makes replacing the thermal compound easy.



To reassemble your device, follow these instructions in reverse order.

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